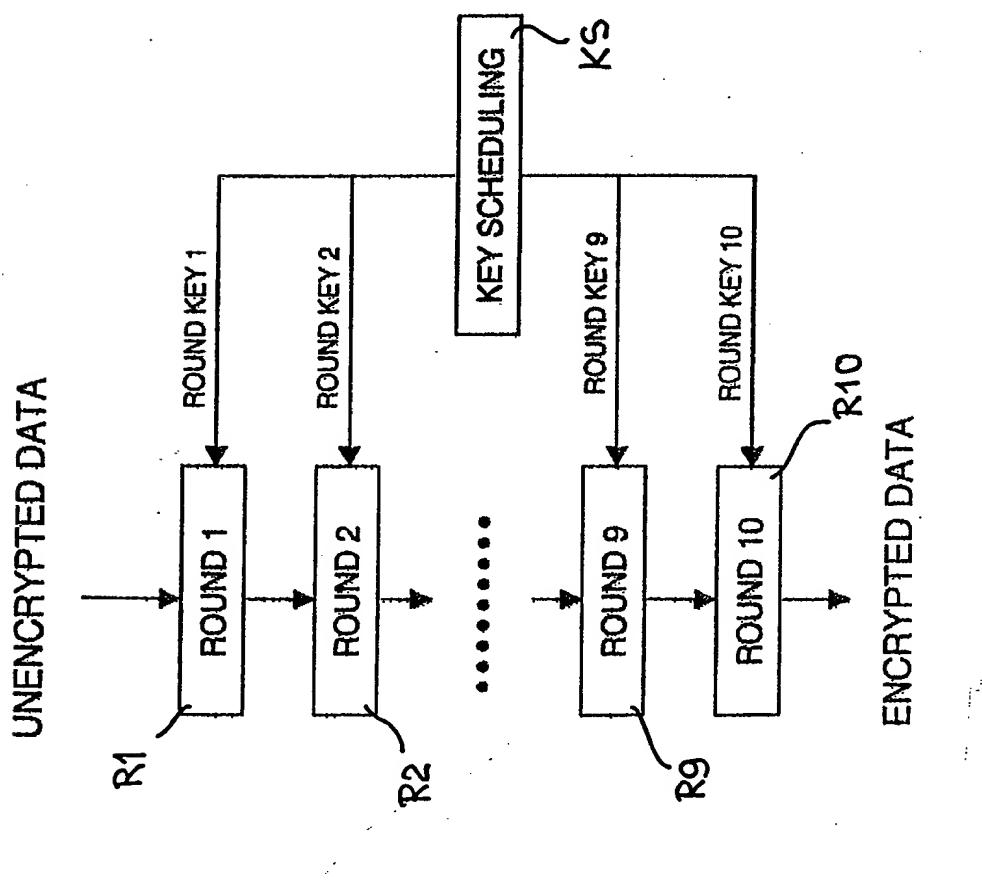
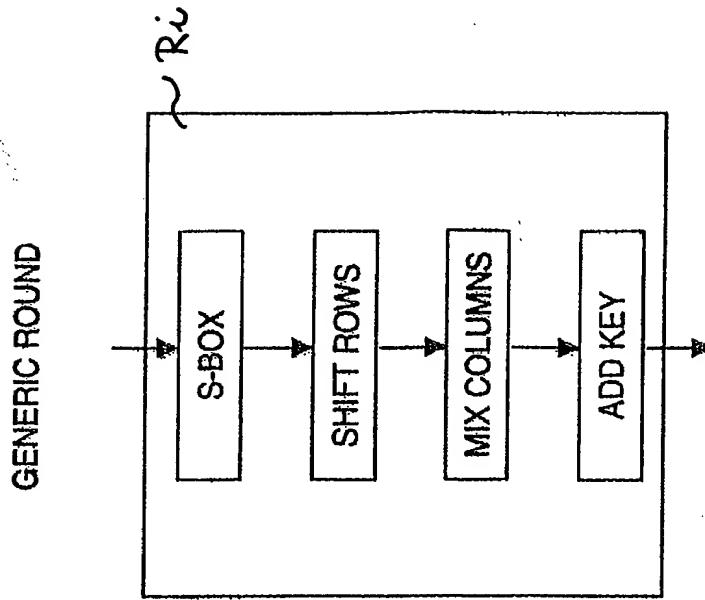


*Fig. 2 (prior art)*



*Fig. 1 (prior art)*

ID

$$\begin{bmatrix} in_0 & in_4 & in_8 & in_{12} \\ in_1 & in_5 & in_9 & in_{13} \\ in_2 & in_6 & in_{10} & in_{14} \\ in_3 & in_7 & in_{11} & in_{15} \end{bmatrix} \xrightarrow{\mathcal{M}} \begin{bmatrix} s_0 & s_4 & s_8 & s_{12} \\ s_1 & s_5 & s_9 & s_{13} \\ s_2 & s_6 & s_{10} & s_{14} \\ s_3 & s_7 & s_{11} & s_{15} \end{bmatrix} \xrightarrow{\mathcal{M}}$$

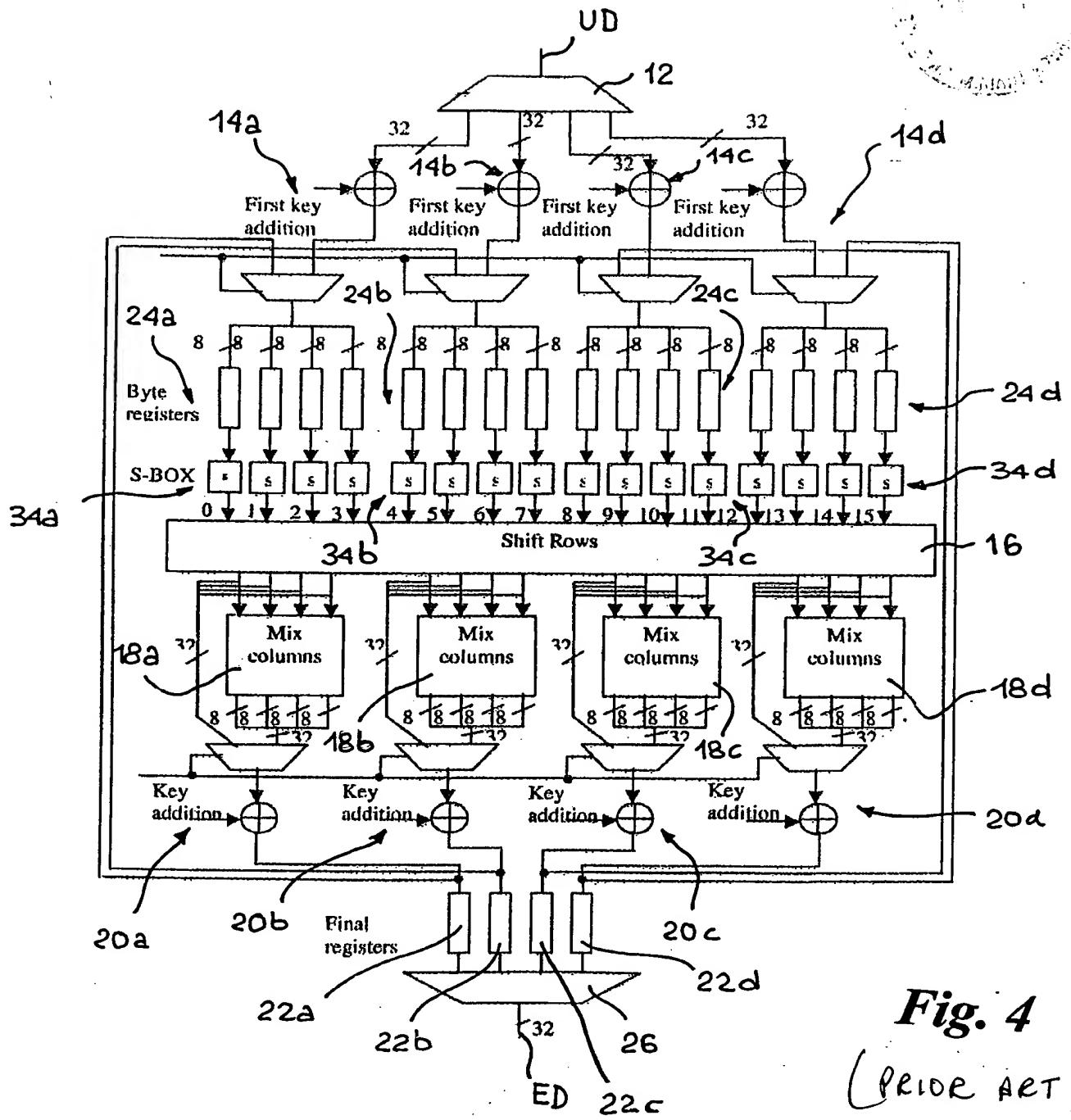
OD

$$\begin{bmatrix} out_0 & out_4 & out_8 & out_{12} \\ out_1 & out_5 & out_9 & out_{13} \\ out_2 & out_6 & out_{10} & out_{14} \\ out_3 & out_7 & out_{11} & out_{15} \end{bmatrix}$$

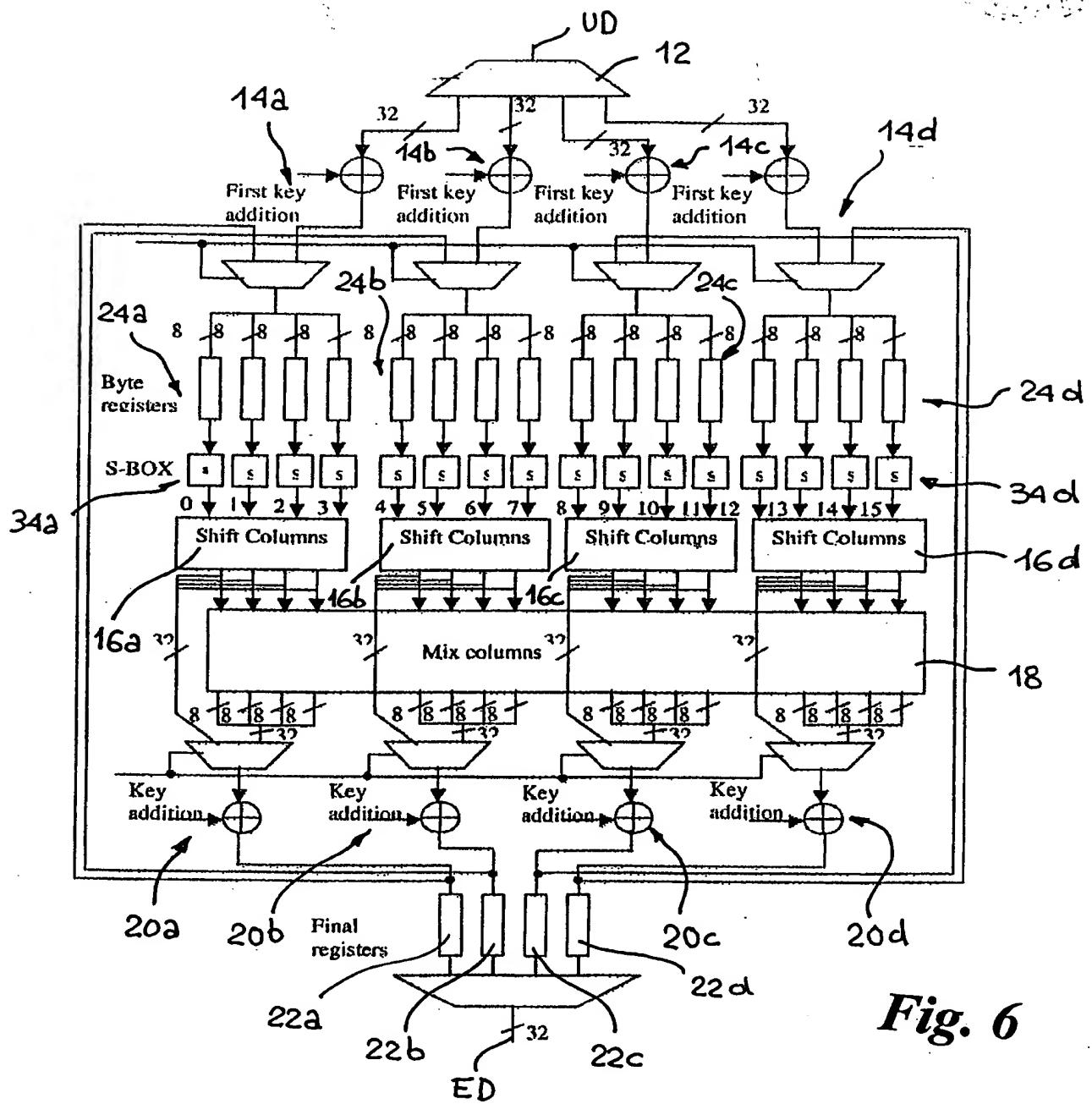
**Fig. 3**  
(Prior Art)

$$\begin{bmatrix} s_0 & s_1 & s_2 & s_3 \\ s_4 & s_5 & s_6 & s_7 \\ s_8 & s_9 & s_{10} & s_{11} \\ s_{12} & s_{13} & s_{14} & s_{15} \end{bmatrix} \xrightarrow{\mathcal{M}'} \begin{bmatrix} s_0 & s_1 & s_2 & s_3 \\ s_4 & s_5 & s_6 & s_7 \\ s_8 & s_9 & s_{10} & s_{11} \\ s_{12} & s_{13} & s_{14} & s_{15} \end{bmatrix}$$

**Fig. 5**



**Fig. 4**  
(PRIOR ART)



*Fig. 6*